





| FILING DATE | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO | |
|---|--|---|--|--|
| 01/22/2001 | Adonia E. Papathanassiu | 05213-0294 (43170-252538) | 8711 | |
| 7590 04 22.2003 | | | | |
| Jamie L. Greene | | EXAMINER | | |
| KILPATRICK STOCKTON LLP 2400 Monarch Tower | | | BORIN, MICHAEL L | |
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| Atlanta, GA 30326 | | ART UNIT | PAPER NUMBER | |
| | | 1631 | | |
| | | DATE MAILED: 04/22/2003 | 1 | |
| | 04 22.2003 FOCKTON LLP Iwer oad, N.E. | 04 22 2003 FOCKTON LLP wer oad, N.E. | (43170-252538) O4 22 2003 EXAMI OCKTON LLP ower oad, N.E. 26 ART UNIT 1631 | |

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

Applicant(s)

09/766,778

Papathanassiu

Examiner

Michael Borin

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| | The WAILING DATE of this communication app | bears on the cover sheet with the correspondence address |
|-----------|---|--|
| Period | for Reply | |
| A SH | ORTENED STATUTORY PERIOD FOR REPLY IS | SET TO EXPIRE 3 MONTH(S) FROM |
| | MAILING DATE OF THIS COMMUNICATION. | |
| | sions of time may be available under the provisions of 37 CFR 1.136 g date of this communication. | (a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the |
| | | within the statutory minimum of thirty (30) days will be considered timely. apply and will expire SIX (6) MONTHS from the mailing date of this communication. |
| - Failure | to reply within the set or extended period for reply will, by statute, or | cause the application to become ABANDONED (35 U.S.C. § 133). |
| | eply received by the Office later than three months after the mailing d dipatent term adjustment. See 37 CFR 1.704(b). | ate of this communication, even if timely filed, may reduce any |
| Status | | |
| 1) X | Responsive to communication(s) filed on <u>Feb</u> | 19, 2003 |
| 2a) 🗶 | This action is FINAL . 2b) This | is action is non-final. |
| 3) | | nce except for formal matters, prosecution as to the merits is Ex parte Quayle, 1935 C.D. 11; 453 O.G. 213. |
| Disposi | tion of Claims | |
| 4) X | Claim(s) 11, 12, 14-18, and 20 | is/are pending in the application. |
| • | 4a) Of the above, claim(s) <u>18</u> | is/are withdrawn from consideration. |
| 5). | Claim(s) | is/are allowed. |
| 6) X | Claim(s) 11, 12, 14-17, and 20 | is/are rejected. |
| 7) | Claim(s) | is/are objected to. |
| 8) | Claims | are subject to restriction and/or election requirement. |
| Applica | ation Papers | |
| 9) | The specification is objected to by the Examin | er. |
| 10) | The drawing(s) filed oni | s/are a) accepted or b) objected to by the Examiner. |
| | Applicant may not request that any objection to | the drawing(s) be held in abeyance. See 37 CFR 1.85(a). |
| 11) | The proposed drawing correction filed on | is: a) approved b) disapproved by the Examiner |
| | If approved, corrected drawings are required in r | eply to this Office action. |
| 12) | The oath or declaration is objected to by the E | examiner. |
| Priority | under 35 U.S.C. §§ 119 and 120 | |
| 13) | Acknowledgement is made of a claim for fore | ign priority under 35 U.S.C. § 119(a)-(d) or (f). |
| a) | All b) Some* c) None of: | |
| | 1. Certified copies of the priority documents | s have been received. |
| | 2. Certified copies of the priority documents | s have been received in Application No |
| | 3. Copies of the certified copies of the prior application from the International | ity documents have been received in this National Stage Bureau (PCT Rule 17.2(a)). |
| *S | ee the attached detailed Office action for a list | |
| 14) | Acknowledgement is made of a claim for dom | estic priority under 35 U.S.C. § 119(e). |
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Attachmentis

- Two tice of meterendes (ited P10 oits
 - Notice of Draftsperson's Patent Drawing Review PTO-948
- Fig. 1. Attension Summary of Cold Cold Caper No. 5
- 5 Notice of Informal Patent Application, PTO 152
- 3 Information Disclosure Statement's PTO 1449 Paper No.s.
- 6 Othe

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DETAILED ACTION

Status of Claims

1. Amendment filed 02/19/2003 is acknowledged. Claims 1-10,13,19 are

canceled. Claims 11,12,14-18,20 are pending. Claims 11,12,20 are amended.

Examiner disagrees with applicants indication of status of claim 18: the claim

is absent in the list of pending claims (p. 7, second paragraph of response).

However, claim 18 has not been canceled and remains to be withdrawn from

consideration as drawn to non-elected species.

In regard to election of species, SEQ ID No. 1 is being elected. Claims reading

on the elected species are claims 11-17,19.

In regard to claim 20, inasmuch as the claim is amended to be dependent of

claim 11, it is included again into the elected Group II.

2. Rejections and/or objections not reiterated from previous Office actions are

hereby withdrawn. The following rejections and/or objections are either reiterated or

newly applied. They constitute the complete set presently being applied to the

instant application.

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3. Claims 12,14-17 are rejected under 35 U.S.C. 112, first paragraph, because the specification, while being enabling for "active" fragments comprising Kunitz-3 domain, does not reasonably provide enablement for any "active fragments of Kunitz-3 domain", as now claimed.

The claims are drawn to compositions of proteins comprising active fragments of Kunitz-3 domain having antiproliferative activity. Specification clearly states that Kunitz-3 domain, not its fragments, is required for a fragment to possess the required activity. See Example 5, and page 11, lines 25-27. There is no core structure identified as required for antiproliferative activity, nor there are examples or guidance disclosing fragments of Kunitz-3 domain having anti-proliferative activity. Further, even for more specific peptide TFPI (SEQ ID No. 1), specification does not disclose any fragments "within the amino acid sequence" of SEQ ID No. 1

The specification does not enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to use the invention commensurate in scope with the amended claims.

Claim Rejections - 35 USC § 102 and 103

4. Claims 11-17,19 are rejected under 35 U.S.C. 102(a) as being anticipated by

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Both references teach compositions comprising TFPI (i.e. protein of instant SEQ ID No. 1) and excipients. Steinhubl et al teach that TFPI inhibits neointimal proliferation. Similarly, Khouri teaches that administration of compositions comprising TFPI inhibits intimal hyperplasia induced by arterial interventions.

The TFPI in the compositions of Steinhubl or Khouri inherently comprise any fragments as instantly claimed, Kunitz-3 domain in particular.

Response to arguments

Applicant's arguments address intended use limitations. The claims are drawn not to a method of use (as mistakenly stated on p. 9, last paragraph) but to a composition.

A chemical composition and its properties are inseparable. Therefore, if the prior art teaches the identical chemical structure and composition, the properties applicant discloses and/or claims are necessarily present. In re Spada, 15 USPQ2d 1655, 1658 (Fed. Cir. 1990). Where the claimed and prior art products are identical or substantially identical in composition, a prima facie case of either anticipation or obviousness has been established. In re Best,195 USPQ 430, 433 (CCPA 1977).

5. Claim 20 is are rejected under 35 U.S.C.103(a) as obvious over Steinhubl et

The claims is drawn to a particular type (sustained release) of carrier.

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Both references teach compositions comprising TFPI (i.e. protein of instant SEQ ID No. 1) and excipients. The references do not expressly teach the particular carrier. Absent some teaching to the contrary however, selection of an appropriate pharmaceutical excipients is within the skill of the ordinary worker as a part of the process of normal optimization.

Conclusion.

- 5. No claims are allowed.
- 6. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, THIS ACTION IS MADE FINAL. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and

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date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Michael Borin whose telephone number is (703) 305-4506. Dr. Borin can normally be reached between the hours of 8:30 A.M. to 5:00 P.M. EST Monday to Friday. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Mr. Michael Woodward, can be reached on (703) 308-4028. The fax telephone number for this group is (703) 305-3014.

Any inquiry of a general nature or relating the status of this application should be directed to the Group receptionist whose telephone number is (703) 308-0196.

MICHAEL BORIN, PH.D.
PRIMARY EXAMINED

April 17, 2003

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